

**Update 2: TCEQ Analysis of TCEQ Contractor Surface Water Quality Sampling Data Collected on March 21, 2019
(lab results)**

The Texas Commission on Environmental Quality (TCEQ) received surface water quality data for up to 129 constituents at one (1) site. One sample was collected at the site on March 21, 2019 by the TCEQ's contractor. The constituents consist of inorganics, organics, metals, nutrients, chemical oxygen demand (COD), and oil and grease in water. The sampling sites were the following:

- Tidal Road @ Tucker Bayou

This assessment is based on results received from the laboratory. As sample results are received, or additional water quality sampling is completed, the data will be assessed, and results made available. There are constituents that are still pending further TCEQ evaluation.

The TCEQ used the Texas Water Quality Standards and the Texas Risk Reduction Program as references for determining the known health protective concentration levels (PCLs) in surface water. PCLs are very conservative and below levels where we would expect any health impacts. The TCEQ is using these PCLs to evaluate impacts to aquatic life and human health. No public drinking water system draws its source water from the Houston Ship Channel. This methodology was also used for previously reviewed data from samples collected by ITC and will be used to review samples from the TCEQ contractor. The TCEQ used the PCLs listed in the tables below to assess the surface water quality data.

Table 1: Assessment of Laboratory Results

	Tidal Road @ Tucker Bayou
Number of Constituents	129
Number of constituents analyzed but not detected (not detected above the method detection limit or quantitation limit)	108
Number of constituents detected above the method detection limit or quantitation limit	21
Number of constituents detected but below their known PCLs	1
Number of constituents that exceeded their known PCLs	8
Number of constituents that are still pending further TCEQ evaluation	12

Below is a table of the constituents that exceeded their known PCL at the sampling site.

Table 2: Tidal Road @ Tucker Bayou

Constituent	Maximum (micrograms/L)	PCL (micrograms/L)
Benzene	3580	581
Chemical Oxygen Demand	960000	150000*
Naphthalene	821	125
Nickel	179	13.1
Oil & Grease, HEM	9000000	28000
Toluene	1670	1000
Xylenes, Total	897	850
Zinc	571	84.2

Footnote:

*COD is a measure of the oxygen demand exerted by chemical constituents in water. There was not a known PCL for COD, therefore the permitted technology-based limit was used for comparison purposes. Although COD levels for treated process wastewater vary 150000 micrograms/L for noncontact stormwater was provided for comparison purposes.